

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058515 A1

(51) International Patent Classification⁷: **B09C 1/00**, 1/10

(74) Agent: **HOOGENDAM, G., C.**; DSM Intellectual Property, P.O. Box 9, NL-6160 MA Geleen (NL).

(21) International Application Number:

PCT/NL2004/000879

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:

16 December 2004 (16.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1025075 19 December 2003 (19.12.2003) NL

(71) Applicant (*for all designated States except US*): **TERRECO** [NL/NL]; P.O.Box 1053, NL-6160 BB Geleen (NL).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

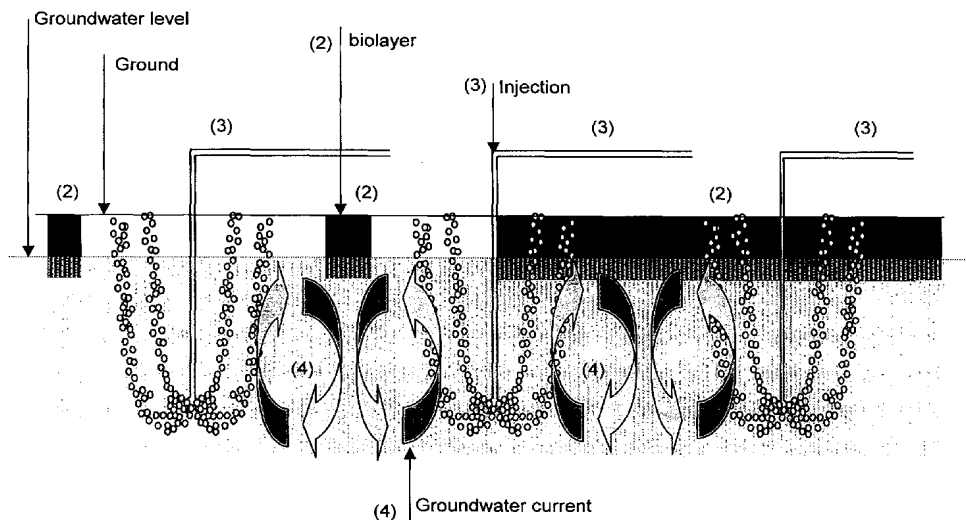
(75) Inventors/Applicants (*for US only*): **STEENBAKKERS, Laurentinus, Wilhelmus** [NL/NL]; Jodenstraat 3, NL-6114 HK Susteren (NL). **PLUM, Martin, Willem, Jozef** [NL/NL]; Kapelweg 24, NL-6374 KD Landgraaf (NL). **GROOTJEN, Dominicus, Richardus, Johannes** [NL/NL]; Dorpstraat 22, NL-6137 SV Sittard (NL).

Published:

— with international search report

[Continued on next page]

(54) Title: PROCESS FOR REMOVING A CONTAMINANT FROM CONTAMINATED GROUNDWATER



(57) Abstract: The invention relates to a process for removing a contaminant from groundwater wherein it is not necessary for groundwater to be extracted from the soil. To that end, the process according to the invention comprises the following steps: a) a biologically active layer (2) is applied on or in the soil b) the contaminated groundwater is contacted with the biologically active layer (2). The contaminant is converted in the biologically active layer. The biologically active layer (2) may be applied discontinuously. The contaminated groundwater may be contacted with the biologically active layer with the aid of for example a gas.

WO 2005/058515 A1



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.